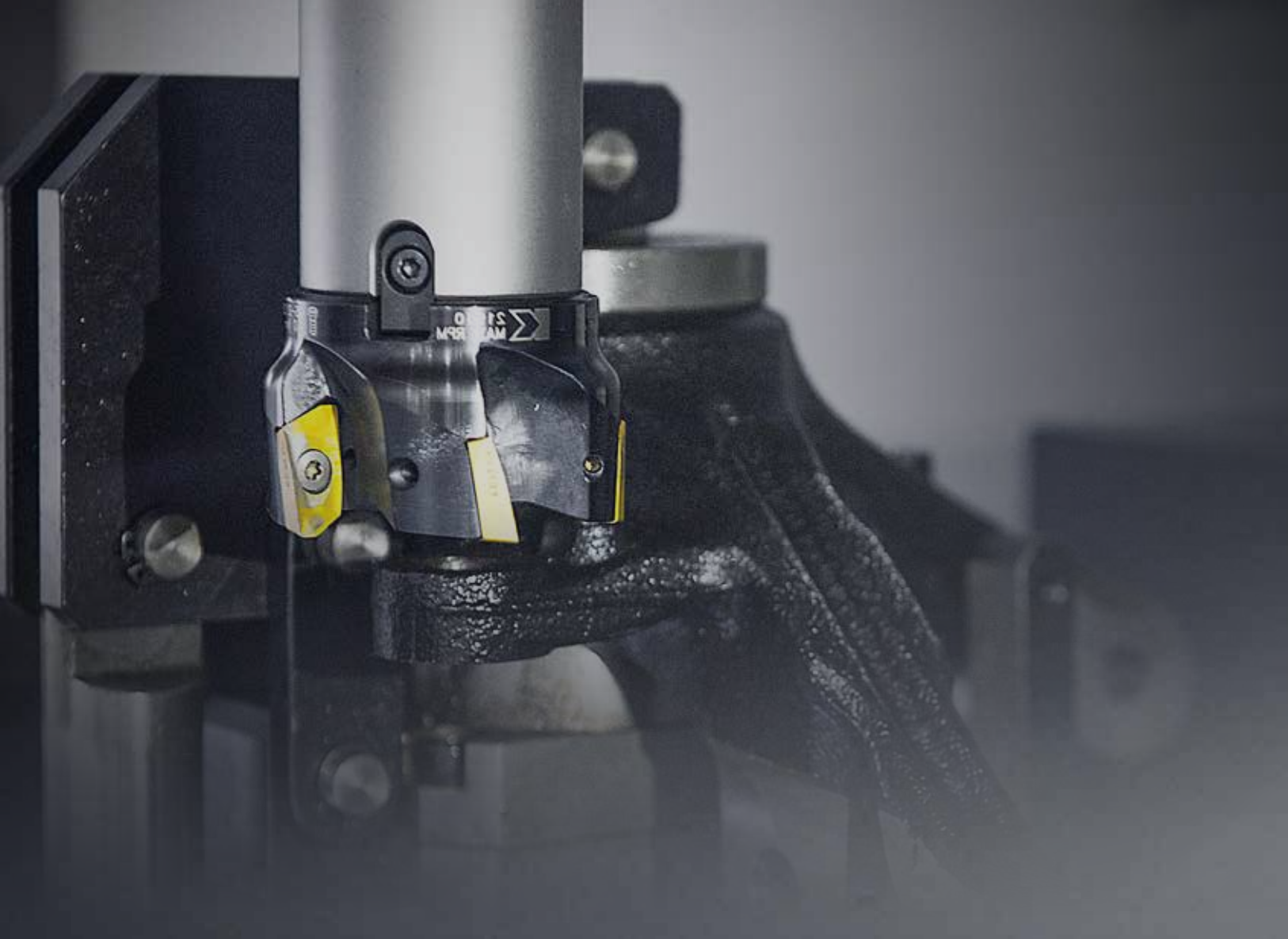


HYUNDAI WIA Heavy Duty Cutting Vertical Machining Center

KF-B II Series

KF5700B II | KF6700B II | KF7700B II



Technical Leader

Best-in-class heavy duty cutting capability, state-of-the-art Vertical Machining Center

The Vertical Machining Center KF-B II Series, designed by Hyundai WIA with years of expertise and the latest technology, maximizes productivity while maintaining rigidity and accuracy.

| ITEM | Direct Sp. | | Gear Sp. | Tool Shank | | Y-axis Stroke | | |
|---------------|------------|--------|----------|------------|-------|-------------------|-------------------|-------------------|
| | 8,000 | 12,000 | 6,000 | BBT40 | BBT50 | 570 mm (19.7") | 670 mm (26.4") | 760 mm (29.9") |
| KF5700B II | ● | ○ | | ● | | ● | | |
| KF5700B/50 II | ● | | ○ | | ● | ● | | |
| KF6700B II | ● | ○ | | ● | | | ● | |
| KF6700B/50 II | ● | | ○ | | ● | | ● | |
| KF7700B II | ● | ○ | | ● | | | | ● |
| KF7700B/50 II | ● | | ○ | | ● | | | ● |

● : Standard ○ : Option

KF-B II Series

Vertical Machining Center for Heavy Duty Cutting

- High power/torque main spindle for superb heavy duty cutting
- Box guideways for exceptional traveling during heavy duty cutting
- Enhanced chip processing capabilities by applying the upper-type conveyor
- Various motors and columns provided for customized machining
- Improved user convenience by applying the latest controller of FANUC



01 BASIC STRUCTURE

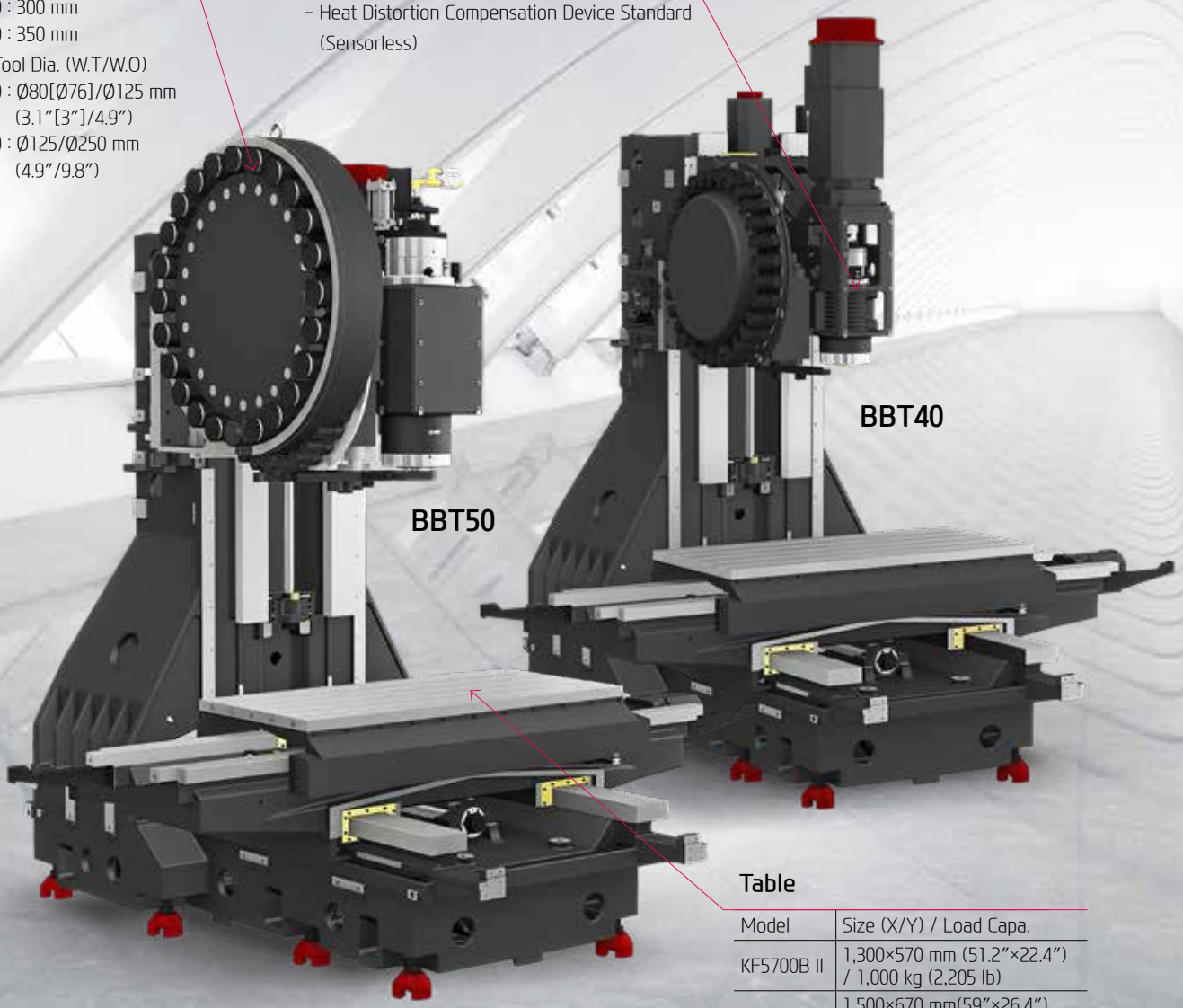
Excellent Heavy Duty Cutting Capability & Productivity Vertical Machining Center

ATC & Magazine

- No. of Tools : 24~40EA
- Max. Tool Length
BBT40 : 300 mm
BBT50 : 350 mm
- Max. Tool Dia. (W.T/W.O)
BBT40 : Ø80[Ø76]/Ø125 mm
(3.1"[3"]/4.9")
BBT50 : Ø125/Ø250 mm
(4.9"/9.8")

High Precision Spindle

- Direct Driven Spindle : 8,000 /12,000 rpm
- Gear Driven Spindle : 6,000 rpm
- Heat Distortion Compensation Device Standard (Sensorless)



BBT50

BBT40

Table

| Model | Size (X/Y) / Load Capa. |
|------------|---|
| KF5700B II | 1,300×570 mm (51.2"×22.4") / 1,000 kg (2,205 lb) |
| KF6700B II | 1,500×670 mm(59"×26.4") / 1,300 kg (2,866 lb) |
| KF7700B II | 1,650×760 mm (65"×30") / 1,500 kg (3,307 lb) |

HIGH-PRECISION, SPEED & LARGE WORKING AREA

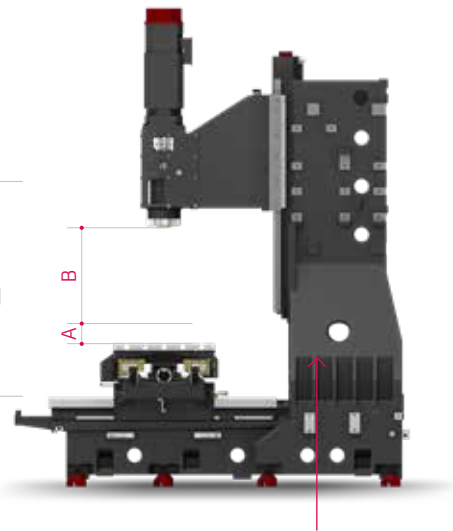
HIGH-PRECISION STRUCTURE

Optimal Structural Analysis

KF-B II Series is designed to have optimal structure through Hyundai WIA's unique structural analysis. In particular, enhancement of bed and column's rigidity makes excellent performance even in heavy duty cutting.

One Piece High Column Structure

One piece high column is provided as an option up to z-axis height. This option helps to process bigger products such as rack housing.



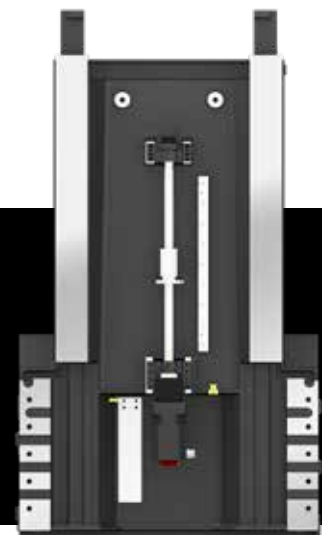
Incomparably Strong Rigidity Compared to the Block-type High Column

| Model | Travel of Z-Axis | Std. A~B | High Column A~B |
|---------------|------------------|-------------------------|----------------------------|
| KF5700B II | 520 mm (20.5") | 150~670 mm (5.9"~26.4") | 450~970 mm (17.7"~38.2") |
| KF5700B/50 II | 520 mm (20.5") | 200~720 mm (7.9"~28.3") | 500~1,020 mm (19.7"~40.2") |
| KF6700B II | 635 mm (25") | 150~785 mm (5.9"~30.9") | 450~1,085 mm (17.7"~42.7") |
| KF6700B/50 II | 635 mm (25") | 200~835 mm (7.9"~32.9") | 500~1,135 mm (19.7"~44.7") |
| KF7700B II | 635 mm (25") | 150~785 mm (5.9"~30.9") | Non Applicable |
| KF7700B/50 II | 635 mm (25") | 200~835 mm (7.9"~32.9") | Non Applicable |

◆ High Column : Option

HIGH-RIGIDITY DESIGN FOR COLUMN & BED

The stable design of column assembly surface on bed top enables securing the fundamental rigidity of the structure.



02 HIGH RIGIDITY SLIDEWAY

High Quality & Speed Vertical Machining Center

Travel (X/Y/Z)

KF5700B II

1,100/570/520 mm (43.3"/22.4"/20.5")

KF6700B II

1,300/670/635 mm (51.1"/26.4"/25")

KF7700B II

1,500/760/635 mm (59"/30"/25")

Rapid Traverse Rate (X/Y/Z)

KF5700B II

30/30/24 m/min (1,181/1,181/945 ipm)

KF6700B II

30/30/24 m/min (1,181/1,181/945 ipm)

KF7700B II

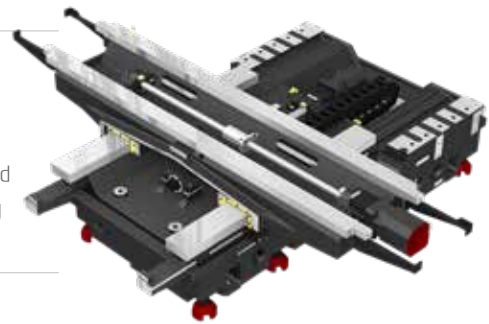
30/30/24 m/min (1,181/1,181/945 ipm)

HIGH-RIGIDITY & STABLE DESIGN

GUIDE WAY

All Axes Box Guideway

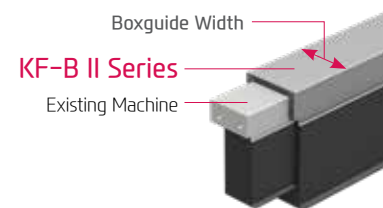
The KF-B II Series are equipped with box guideways to enable distributing its feeding force evenly to each slideway. It boasts excellent rigidity, a stable feed structure, and an increased box guide slideway, thus providing an excellent heavy-duty cutting performance.



Large Box Guideway

Capability of heavy-duty cutting and vibration absorption is enhanced drastically due to expanded box guide.

| Division | X-Axis Width | Y-Axis Width | Z-Axis Width |
|------------------|---------------------|---------------------|---------------------|
| Existing Machine | 100mm (3.9") | 100mm (3.9") | 100mm (3.9") |
| KF6700B II | 100mm (3.9") | 160mm (6.3") | 125mm (4.9") |

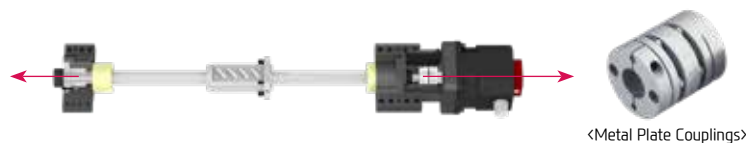


Double Anchored Ball Screw

The pretensioned ball screw minimizes the expansion and contraction according to the heat and further reinforces the rigidity by the double anchor support method.

In addition, the coupling of the ballscrews and the highly reliable digital servo motors are connected by **metal plate couplings**, to reduce coupling breakage and backlash.

3 Row bearing + Oil Lubricated
Rigidity 147% Increase
 compared to previous model



Increase in Durability of Z-axis ball screw

Lifetime of the bearing has been greatly increased by optimizing the spindle structure and lubrication method.

※ Customer Actual Data



03 HIGH PRECISION SPINDLE

Long Lasting High Accuracy & Excellent Performance

Spindle Specifications

[] : Option

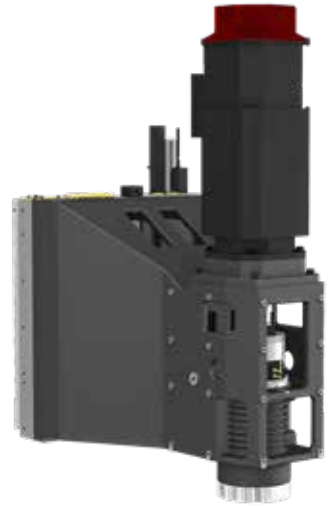
| ITEM | Speed r/min | Motor (Max./Cont.) | Torque (Max./Cont.) | Tool Shank |
|-------------|--------------|-------------------------|--|---------------|
| Direct Type | 8,000 rpm | 15/11 kW (20/15 HP) | 286/143 N·m (210.9/105.5 lbf·ft) | BBT40 [BBT50] |
| | [12,000 rpm] | [18.5/11 kW (25/15 HP)] | [118/52.5 N·m (87/38.7 lbf·ft)] | BBT40 |
| Gear Type | [6,000 rpm] | [18.5/15 kW (25/20 HP)] | [586.3/475.4 N·m (432.2/350.6 lbf·ft)] | BBT50 |

HIGH-PERFORMANCE, HIGH-PRECISION SPINDLE

SPINDLE

Direct Driven Spindle

The directly coupled spindle at a maximum revolution of 12,000rpm, allows high-speed processing. Additionally, the large diameter and the thickness of the spindle add to the stability of the machine.



Direct Driven Spindle

Gear Driven Spindle

It provides stable machining capability by doubling the heavy cutting capacity with the maximum torque of the same class. It guarantees stable torque at high speed at low speed and stable rotation at high speed to realize wide machining.



Gear Driven Spindle

Spindle Cooling (Over 10,000 rpm / BT50 Std.)

The spindle cooling system minimizes thermal displacement which can happen during lengthy machining operations, and offers continued accuracy based on the thermal stability.

❖ Improved cooling capability with chilling through head frame

Through Spindle Coolant (20/30/70 bar) **OPTION**

Through Spindle Coolant is exceedingly useful when drilling deep holes. It helps increase the lifetime of the tool, while decreasing cycle time.

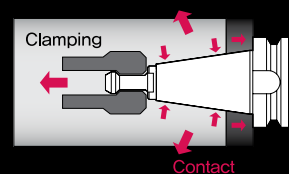
The improved quality of rotary joint prevents oil leakage.

<※ Thermal Displacement Compensation as Standard (Sensorless)>

DUAL CONTACT SPINDLE

OPTION

The Big Plus spindle system provides dual contact between the spindle face and the flange face of the tool holder.



04 ATC & TABLE

High Productivity Achieved with High Rigidity, Accuracy Machining

No. of Tools

BBT40 - 30 [40] EA BBT50 - 24 [KF6700B/50 III : 30, KF7700B/50 II : 40] EA

Max. Tool Length

BBT40 - 300 mm (11.8") BBT50 - 350 mm (13.8")

Max. Tool Weight

BBT40 - 8 kg (18 lb) BBT50 - 15 kg (33 lb)

Max. Tool Dia. (W.T/W.O)

BBT40 - Ø80[Ø76]/Ø125 mm (Ø3.1" [Ø3"]/Ø4.9") BBT50 - Ø125/Ø250 mm (Ø4.9"/Ø9.8")

[] : Option

HIGH RIGIDITY, TOOL CHANGE SYSTEM

ATC

High Speed ATC

Position control through twin arm ATC on servo motors has been improved drastically. In addition, tool exchanging has become easier, reducing specific cutting time tremendously.

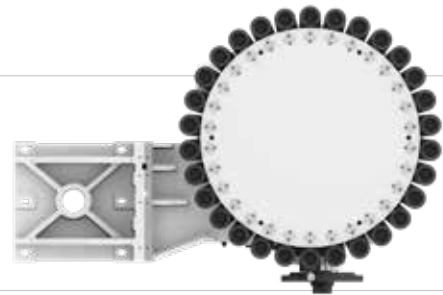
Position control on the Twin Arm ATC has improved drastically. The twin arm ATC enables faster tool change and increased productivity.



MAGAZINE

Magazine

A magazine that can attach various tools between 24~40 EA was adopted to increase the range of selection for machining tools, and the overall size of the magazine was reduced to reduce vibration during magazine rotation to improve surface finishing.



<40T : Servo Motor, 30T : Geared Motor (Option : Servo Motor)>

TABLE

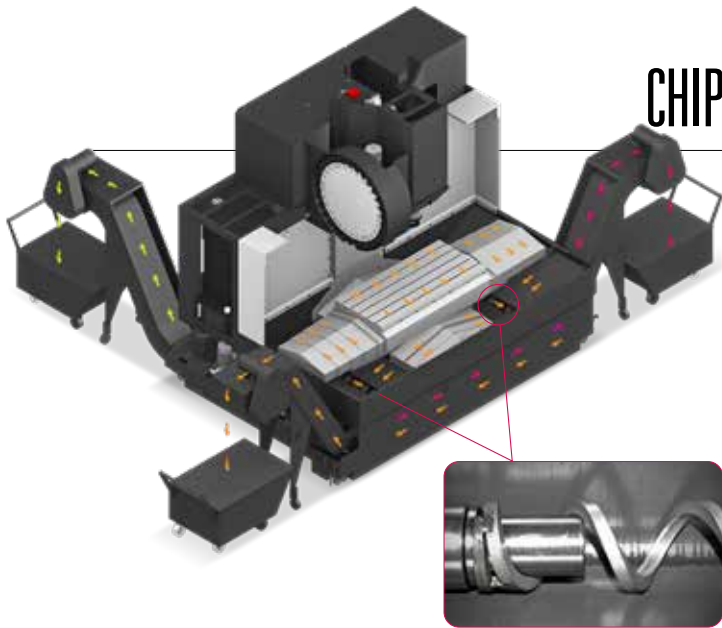
Compared to competitive machines, the KF-B II series has a largeworking capacity to make setup easier and provide convenienceto the operator.



| Model | Size | Load Capacity |
|------------|----------------------------|---------------------|
| KF5700B II | 1,300×570 mm (51.2"×22.4") | 1,000 kg (2,205 lb) |
| KF6700B II | 1,500×670 mm (59"×26.4") | 1,300 kg (2,866 lb) |
| KF7700B II | 1,650×760 mm (65"×30") | 1,500 kg (3,307 lb) |

05 USER CONVENIENCE

Various Devices for User Friendly



CHIP DISPOSAL SOLUTION & COOLANT UNIT



Cutting Air Blow (Opt.)



Bed Flushing Coolant (Opt.)



Gun Coolant (Opt.)



Air Gun (Opt.)



Interior Screw Chip Conveyor (Forward / Backward Rotation Function)

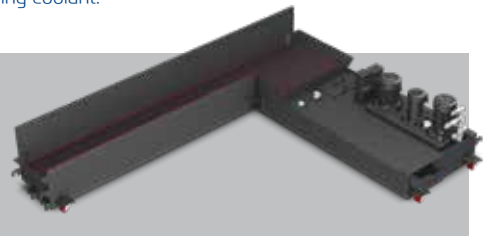
Dual screw type chip conveyors are located at each side of the bed which makes it convenient to remove chips. The interior screw and the chip conveyor operate at the same time and can be controlled separately at the time of prior consultation.

(Three screws for rear-type conveyor: 2 sides + 1 front)

Furthermore, chip disposal capability significantly has been improved due to optional bed-flushing coolant.

Upper-type Conveyor (Std.)

The upper type chip conveyor is applied as a standard to efficiently remove chips generated during machining. In addition, the large coolant tank provides a seamless machining environment even with large amounts of coolant.



| | | | |
|---------------|---|----------------------------------|---------------------|
| Hinge | Chip Type : Roughing Chip, Long Chip, Chip complex | Material : SS41, 45C, Cast Steel | Side/Rear Direction |
| | Highly efficient when disposing a lot of chips. Capable of handling stringy chips.. | | |
| Scraper | Chip Type : Finely broken chip blown out | Material : cast Iron, Nonferrous | |
| | Convenient for shortly cut chips. | | |
| ❖ Screw | Chip Type : The lower portion of micro-chips | Material : Steel, Casting | |
| | Compresses and ejects chips to reduce chip Trouble. | | |
| ❖ Drum Filter | Chip Type : Powder, Micro Chip | Material : AL | |
| | Advantageous in precision, as the chips do not flow in to the coolant nozzle. | | |

❖ When ordering a screw or drum filter chip conveyor, prior consult with hyundai wia's sales person.

Optional

PRECISION SYSTEM



Linear Scale

Linear scales increase positioning accuracy and reduce distortion caused by thermal growth, thus ensuring a more accurate finished part



Touch Sensor

Workpiece coordinate values can be set automatically using the optional spindle probe.



TLM (Laser & Touch)

Tool lengths and diameters can be set automatically using the optional tool setter. This can also be used to monitor attrition and detect broken tools.

ECO SYSTEM



Oil-skimmer

Separated oil-skimmer and coolant tank to keep coolant free of tramp oils.



Mist Collector

Mist Collectors reduce the amount of smoke and mist in the air creating a more comfortable and safer work environment



MQL (Minimal Quantity Lubrication)

The goal of this system is to spray only the amount of lubricant required to prevent heat and chip build up at the cutting tool or work piece face.



NC ROTARY TABLE & HYDRAULIC SUPPLY UNIT

Various shapes of products can be processed when using NC Rotary Table. In addition, 100 bar of high pressure hydraulic unit for the fixture increases the tightening power of the teeth.

06 HYUNDAI WIA FANUC – SMART PLUS

The Compatible All-round Control



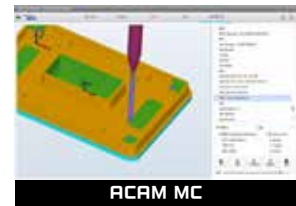
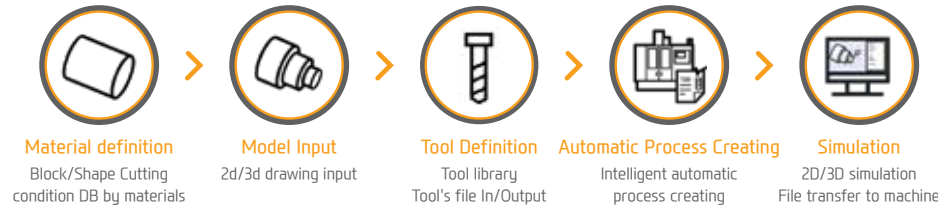
15" Touch-type Monitor as a standard

| | |
|------------------------------------|--|
| Smart Machine Control | Fast Cycle Time Technology |
| Conversational Program | Fine Surface Technology |
| i-HMI | Smart Guide-i |
| AI Contour Control | Machining-aid Function |
| Smooth Tolerance Control | AICC-2 (200 blocks) |
| JERK Control | 0.1µm command and specify tolerance |
| Machining Condition Selection | Diminished vibration by controlling acceleration speed |
| Machining Quality Control Function | Designated machining level based on speed & quality |
| Part Program Storage | Smooth Tolerance+ integrated support |
| No. of Registerable Programs | 5120M (2MB) |
| | 1000 EA |

ACAM (Automatic CAM)

Cloud-based automatic CAM S/W that automatically creates NC programs only by inputting drawing files

Cloud-based Intelligent Programming



MMS (Machine Monitoring System)



1. MMS Cloud

A cloud server-based equipment monitoring system for collecting and analyzing facility operation data.

2. MMS Edge

A client server-based tool monitoring system for collection/analysis of facility operation data. (Compatible with client MES / ERP interface)

SMART CNC (FANUC SMART PLUS)



1. Dialogue Program (Smart Guide-i)

This software offers the maximum user convenience through dialogue manipulation from setup to processing. This includes writing processing programs and simulation checks.

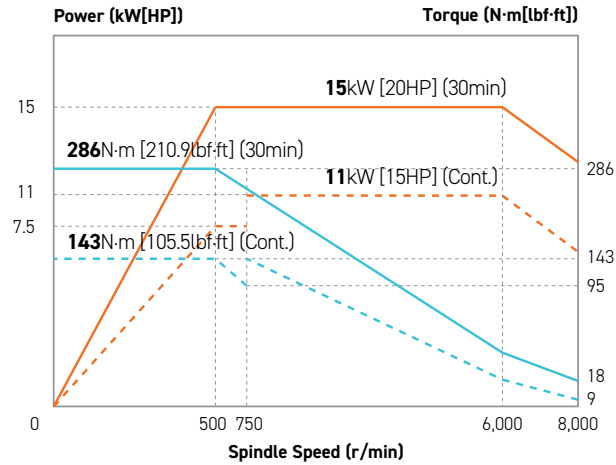
2. LAUNCHER

This software offers shortcuts for quick access to specialized features and frequently used features.

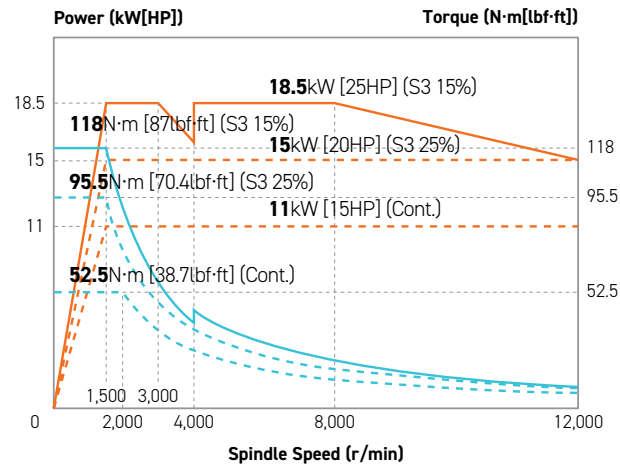
SPECIFICATIONS

Spindle Output/Torque Diagram

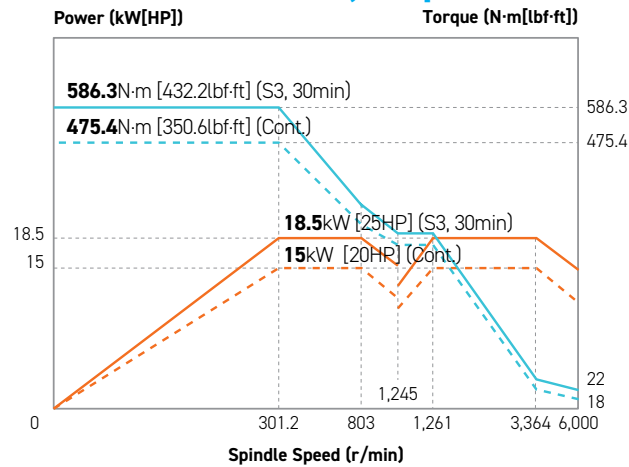
BT40/BT50 Direct 8,000rpm



BT40 Direct 12,000rpm



BT50 Gear 6,000rpm



SPECIFICATIONS

Standard & Optional

| | | KF5700B II | KF6700B II | KF7700B II |
|--|-------------------------------|------------|------------|------------|
| Spindle | | | | |
| 8,000rpm (15kW [20.1HP]) | DIRECT | ● | ● | ● |
| 12,000rpm (18.5kW [24.8HP]) | DIRECT | ○ | ○ | ○ |
| Spindle Cooling System | | | | |
| | 8,000rpm | ○ | ○ | ○ |
| | 12,000rpm | ● | ● | ● |
| ATC | | | | |
| ATC Extension | | | | |
| | 30 | ● | ● | ● |
| | 40 | ○ | ○ | ○ |
| Tool Shank Type | | | | |
| | BBT40 | ● | ● | ● |
| | HSK-A63 | ○ | ○ | ○ |
| | CAT40/BCV40 | ○ | ○ | ○ |
| U-Center | | | | |
| | D'andrea | ○ | ○ | ○ |
| Pull Stud | | | | |
| | 45° | ● | ● | ● |
| | 75° | ○ | ○ | ○ |
| Table & Column | | | | |
| APC | | - | - | - |
| Tap Type Table | | - | - | - |
| T-Slot Table | | ● | ● | ● |
| NCRotary Table | | ☆ | ☆ | ☆ |
| High Column | | | | |
| | 200mm (7.9") | - | - | - |
| | 300mm (11.8") | ○ | ○ | ○ |
| Coolant System | | | | |
| Std. Coolant (Main Spindle Nozzle) | | ● | ● | ● |
| | 20bar | ○ | ○ | ○ |
| *Through Spindle Coolant | | | | |
| | 30bar, 20ℓ (5.3 gal) | ○ | ○ | ○ |
| | 70bar, 15ℓ (4 gal) | ○ | ○ | ○ |
| | 70bar, 30ℓ (7.9 gal) | ○ | ○ | ○ |
| Top Cover | | ● | ● | ● |
| Shower Coolant | | ○ | ○ | ○ |
| Gun Coolant | | ○ | ○ | ○ |
| Bed Flushing Coolant | | ☆ | ☆ | ☆ |
| Air Gun | | ○ | ○ | ○ |
| Cutting Air Blow | | ○ | ○ | ○ |
| Tool Measuring Air Blow (Only for TLM) | | ○ | ○ | ○ |
| Air Blow for Automation | | ☆ | ☆ | ☆ |
| Thru MQL Device (Without MQL) | | ☆ | ☆ | ☆ |
| Coolant Chiller | | ☆ | ☆ | ☆ |
| Power Coolant System (For Automation) | | ☆ | ☆ | ☆ |
| Chip Disposal | | | | |
| Coolant Tank | | ● | ● | ● |
| Interior Screw Chip Conveyor | | ● | ● | ● |
| Upper Chip Conveyor (Hinge) | | | | |
| | Side | ○ | ○ | ○ |
| | Rear | ○ | ○ | ○ |
| Upper Chip Conveyor (Scraper) | | | | |
| | Side | ○ | ○ | ○ |
| | Rear | ○ | ○ | ○ |
| Screw Type Chip Conveyor | | | | |
| | Left | ☆ | ☆ | ☆ |
| | Right | ☆ | ☆ | ☆ |
| Drum Filter Type Chip Conveyor | | | | |
| | Left | ☆ | ☆ | ☆ |
| | Right | ☆ | ☆ | ☆ |
| | Rear | ☆ | ☆ | ☆ |
| Chip Wagon | | | | |
| | Standard (180ℓ [47.5 gal]) | ○ | ○ | ○ |
| | Swing (200ℓ [52.8 gal]) | ○ | ○ | ○ |
| | Large Swing (290ℓ [76.6 gal]) | ○ | ○ | ○ |
| | Large Size (330ℓ [87.2 gal]) | ○ | ○ | ○ |
| | Customized | ☆ | ☆ | ☆ |
| ETC | | | | |
| Tool Box | | ● | ● | ● |
| Customized Color | | ☆ | ☆ | ☆ |
| CAD&CAM Software | | ☆ | ☆ | ☆ |

● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

| | | KF5700B II | KF6700B II | KF7700B II |
|--|-----------------|------------|------------|------------|
| Electric Device | | | | |
| Call Light | 1 Color : ● | ● | ● | ● |
| Call Light & Buzzer | 3 Color : ●●● B | ○ | ○ | ○ |
| Electric Cabinet Light | | ○ | ○ | ○ |
| Remote MPG | | ● | ● | ● |
| 3 Axis MPG | | ○ | ○ | ○ |
| Work Counter | Digital | ○ | ○ | ○ |
| Total Counter | Digital | ○ | ○ | ○ |
| Tool Counter | Digital | ○ | ○ | ○ |
| Multi Tool Counter | Digital | ☆ | ☆ | ☆ |
| Electric Circuit Breaker | | ○ | ○ | ○ |
| AVR (Auto Voltage Regulator) | | ☆ | ☆ | ☆ |
| Transformer | | | | |
| | 30KVA | ○ | - | - |
| | 35KVA | - | ○ | - |
| | 40KVA | - | - | ○ |
| Auto Power Off | | ○ | ○ | ○ |
| Back up Module for Black out | | ○ | ○ | ○ |
| Measuring Device | | | | |
| Air Zero | TACO | ○ | ○ | ○ |
| | SMC | ○ | ○ | ○ |
| Work Measuring Device | | ○ | ○ | ○ |
| TLM | Touch | ○ | ○ | ○ |
| (Marposs/Renishaw/Blum) | Laser | ○ | ○ | ○ |
| Tool Broken Detecting Device | | ☆ | ☆ | ☆ |
| Linear Scale | X/Y/Z Axis | ○ | ○ | ○ |
| Coolant Level Sensor (Only for Chip Conveyor, Bladder Type) | | ☆ | ☆ | ☆ |
| Environment | | | | |
| Air Conditioner | | ○ | ○ | ○ |
| Oil Mist Collector | | ☆ | ☆ | ☆ |
| Oil Skimmer (Only for Chip Conveyor) | | ○ | ○ | ○ |
| MQL (Minimal Quantity Lubrication) | | ☆ | ☆ | ☆ |
| Fixture & Automation | | | | |
| Auto Door | Std. | ○ | ○ | ○ |
| | High Speed | ☆ | ☆ | ☆ |
| Auto Shutter (Only for Automatic System) | | ○ | ○ | ○ |
| Sub O/P | | ☆ | ☆ | ☆ |
| NC Rotary Table/F | Single | ○ | ○ | ○ |
| | Channel | ☆ | ☆ | ☆ |
| | 1Axis | ○ | ○ | ○ |
| | 2Axis | ☆ | ☆ | ☆ |
| External M Code 4ea | | ○ | ○ | ○ |
| Automation Interface | | ☆ | ☆ | ☆ |
| I/O Extension (In & Out) | 16 Contact | ☆ | ☆ | ☆ |
| | 32 Contact | ☆ | ☆ | ☆ |
| Hyd. Device | | | | |
| Std. Hyd. Unit | 45bar | - | - | - |
| | 70bar | ○ | ○ | ○ |
| | 100bar | ○ | ○ | ○ |
| | Customized | ☆ | ☆ | ☆ |
| S/W | | | | |
| Automatic CAM (HW-ACAM) | | - | - | - |
| Dialogue Program (HW-DPRO) | | ○ | ○ | ○ |
| DNIC software (HW-eDNIC) | | ○ | ○ | ○ |
| Machine Monitoring System (HW-MMS Cloud) | | ☆ | ☆ | ☆ |
| Machine Monitoring System & Analysis (Customer Installation : HW-MMS Edge) | | ☆ | ☆ | ☆ |
| Smart Guide-i : FANUC | | ● | ● | ● |
| Smart S/W | | ☆ | ☆ | ☆ |

*Through Spindle Coolant : Please check the filter types with sales representative.

Specifications are subject to change without notice for improvement. / Please refer to the S/W catalog (iRIS) for details by S/W product.

SPECIFICATIONS

Standard & Optional

● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

| Spindle | | KF5700B/50 II | KF6700B/50 II | KF7700B/50 II |
|--|-------------------------------|---------------|---------------|---------------|
| 8,000rpm (15kW [20.1HP]) | DIRECT | ● | ● | ● |
| 6,000rpm (18.5kW [24.8HP]) | GEAR | ○ | ○ | ○ |
| Spindle Cooling System | | ● | ● | ● |
| ATC | | | | |
| ATC Extension | 24 | ● | ● | ● |
| | 30 | - | ○ | - |
| | 40 | - | - | ○ |
| Tool Shank Type | BBT40 | ● | ● | ● |
| | HSK-A63 | ○ | ○ | ○ |
| | CAT40/BCV40 | ○ | ○ | ○ |
| U-Center | D'andrea | ○ | ○ | ○ |
| Pull Stud | 45° | ● | ● | ● |
| | 75° | - | - | - |
| Table & Column | | | | |
| APC | | - | - | - |
| Tap Type Table | | - | - | - |
| T-Slot Table | | ● | ● | ● |
| NCRotary Table | | ☆ | ☆ | ☆ |
| High Column | 200mm (7.9") | - | - | - |
| | 300mm (11.8") | ○ | ○ | - |
| Coolant System | | | | |
| Std. Coolant (Main Spindle Nozzle) | | ● | ● | ● |
| *Through Spindle Coolant | 20bar | ○ | ○ | ○ |
| | 30bar, 20ℓ (5.3 gal) | ○ | ○ | ○ |
| | 70bar, 15ℓ (4 gal) | ○ | ○ | ○ |
| | 70bar, 30ℓ (7.9 gal) | ○ | ○ | ○ |
| Top Cover | | ● | ● | ● |
| Shower Coolant | | ○ | ○ | ○ |
| Gun Coolant | | ○ | ○ | ○ |
| Bed Flushing Coolant | | ☆ | ☆ | ☆ |
| Air Gun | | ○ | ○ | ○ |
| Cutting Air Blow | | ○ | ○ | ○ |
| Tool Measuring Air Blow (Only for TLM) | | ○ | ○ | ○ |
| Air Blow for Automation | | ☆ | ☆ | ☆ |
| Thru MQL Device (Without MQL) | | ☆ | ☆ | ☆ |
| Coolant Chiller | | ☆ | ☆ | ☆ |
| Power Coolant System (For Automation) | | ☆ | ☆ | ☆ |
| Chip Disposal | | | | |
| Coolant Tank | | ● | ● | ● |
| Interior Screw Chip Conveyor | | ● | ● | ● |
| Flood Chip Conveyor (Hinge/Scraper) | Left | ○ | ○ | ○ |
| | Right | ○ | ○ | ○ |
| | Rear | ○ | ○ | ○ |
| Upper Chip Conveyor (Hinge) | Left | ○ | ○ | ○ |
| | Right | ○ | ○ | ○ |
| Screw Type Chip Conveyor | Left | ☆ | ☆ | ☆ |
| | Right | ☆ | ☆ | ☆ |
| Drum Filter Type Chip Conveyor | Left | ☆ | ☆ | ☆ |
| | Right | ☆ | ☆ | ☆ |
| | Rear | ☆ | ☆ | ☆ |
| Chip Wagon | Standard (180ℓ [47.5 gal]) | ○ | ○ | ○ |
| | Swing (200ℓ [52.8 gal]) | ○ | ○ | ○ |
| | Large Swing (290ℓ [76.6 gal]) | ○ | ○ | ○ |
| | Large Size (330ℓ [87.2 gal]) | ○ | ○ | ○ |
| | Customized | ☆ | ☆ | ☆ |
| ETC | | | | |
| Tool Box | | ● | ● | ● |
| Customized Color | Need for Munsel No. | ☆ | ☆ | ☆ |
| CAD&CAM Software | | ☆ | ☆ | ☆ |

| Electric Device | | KF5700B/50 II | KF6700B/50 II | KF7700B/50 II |
|--|-------------------|---------------|---------------|---------------|
| Call Light | 1 Color : ● | ● | ● | ● |
| Call Light & Buzzer | 3 Color : ● ● ● B | ○ | ○ | ○ |
| Electric Cabinet Light | | ○ | ○ | ○ |
| Remote MPG | | ● | ● | ● |
| 3 Axis MPG | | ○ | ○ | ○ |
| Work Counter | Digital | ○ | ○ | ○ |
| Total Counter | Digital | ○ | ○ | ○ |
| Tool Counter | Digital | ○ | ○ | ○ |
| Multi Tool Counter | Digital | ☆ | ☆ | ☆ |
| Electric Circuit Breaker | | ○ | ○ | ○ |
| AVR (Auto Voltage Regulator) | | ☆ | ☆ | ☆ |
| Transformer | 35kVA | ○ | - | - |
| | 40kVA | - | ○ | ○ |
| Auto Power Off | | ○ | ○ | ○ |
| Back up Module for Black out | | ○ | ○ | ○ |
| Measuring Device | | | | |
| Air Zero | TACO | ○ | ○ | ○ |
| | SMC | ○ | ○ | ○ |
| Work Measuring Device | | ○ | ○ | ○ |
| TLM (Marposs/Renishaw/Blum) | Touch | ○ | ○ | ○ |
| | Laser | ○ | ○ | ○ |
| Tool Broken Detecting Device (Only for Chip Conveyor, Bladder Type) | | ☆ | ☆ | ☆ |
| Linear Scale | X/Y/Z Axis | ○ | ○ | ○ |
| Coolant Level Sensor | | ☆ | ☆ | ☆ |
| Environment | | | | |
| Air Conditioner | | ○ | ○ | ○ |
| Oil Mist Collector | | ☆ | ☆ | ☆ |
| Oil Skimmer (Only for Chip Conveyor) | | ○ | ○ | ○ |
| MQL (Minimal Quantity Lubrication) | | ☆ | ☆ | ☆ |
| Fixture & Automation | | | | |
| Auto Door | Std. | ○ | ○ | ○ |
| | High Speed | ☆ | ☆ | ☆ |
| Auto Shutter (Only for Automatic System) | | ○ | ○ | ○ |
| Sub O/P | | ☆ | ☆ | ☆ |
| NC Rotary Table/F | Single | ○ | ○ | ○ |
| | Channel | ☆ | ☆ | ☆ |
| Control of Additional Axis | 1Axis | ○ | ○ | ○ |
| | 2Axis | ☆ | ☆ | ☆ |
| External M Code 4ea | | ○ | ○ | ○ |
| Automation Interface | | ☆ | ☆ | ☆ |
| I/O Extension (In & Out) | 16 Contact | ☆ | ☆ | ☆ |
| | 32 Contact | ☆ | ☆ | ☆ |
| Hyd. Device | | | | |
| Std. Hyd. Unit | 45bar | - | - | - |
| | 70bar | ○ | ○ | ○ |
| | 100bar | ○ | ○ | ○ |
| | Customized | ☆ | ☆ | ☆ |
| S/W | | | | |
| Automatic CAM (HW-ACAM) | | - | - | - |
| Dialogue Program (HW-DPRO) | | ○ | ○ | ○ |
| DNC software (HW-eDNC) | | ○ | ○ | ○ |
| Machine Monitoring System (HW-MMS Cloud) | | ☆ | ☆ | ☆ |
| Machine Monitoring System & Analysis (Customer Installation : HW-MMS Edge) | | ☆ | ☆ | ☆ |
| Smart Guide-i : FATIUC | | ● | ● | ● |
| Smart S/W | | ☆ | ☆ | ☆ |

*Through Spindle Coolant : Please check the filter types with sales representative.

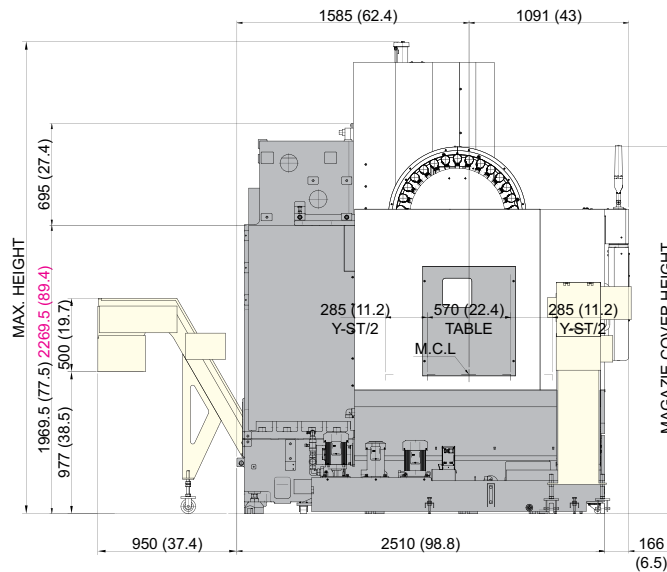
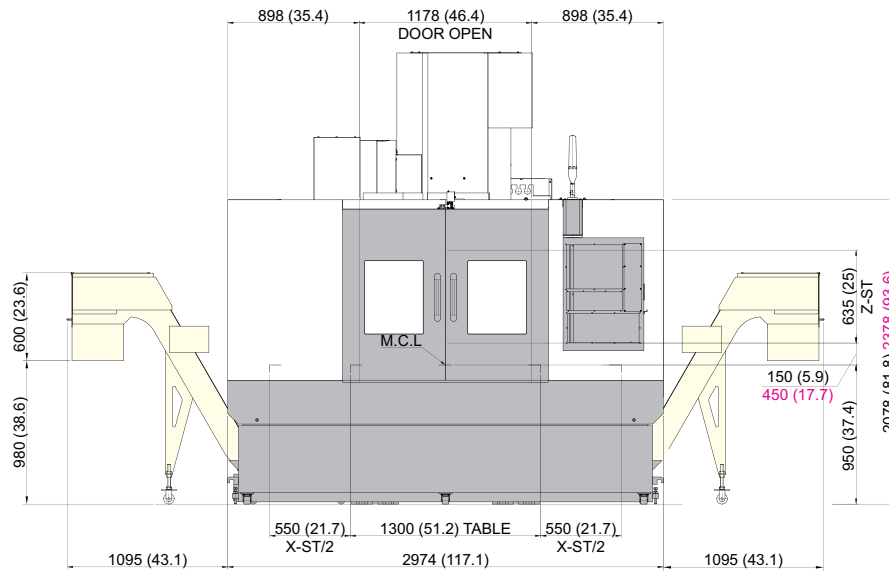
Specifications are subject to change without notice for improvement. / Please refer to the S/W catalog (IRIS) for details by S/W product.

SPECIFICATIONS

External Dimensions

unit : mm(in)

KF5700B II (High Column : Option)



High Column : 300 mm (11.8")

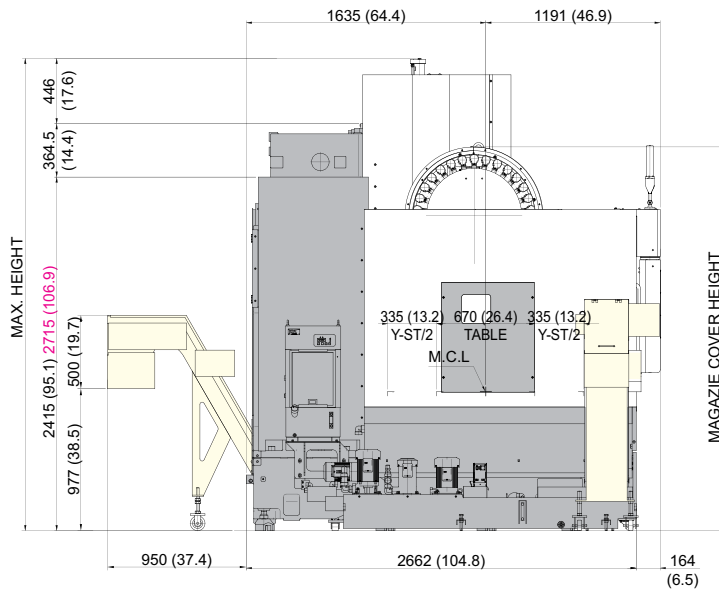
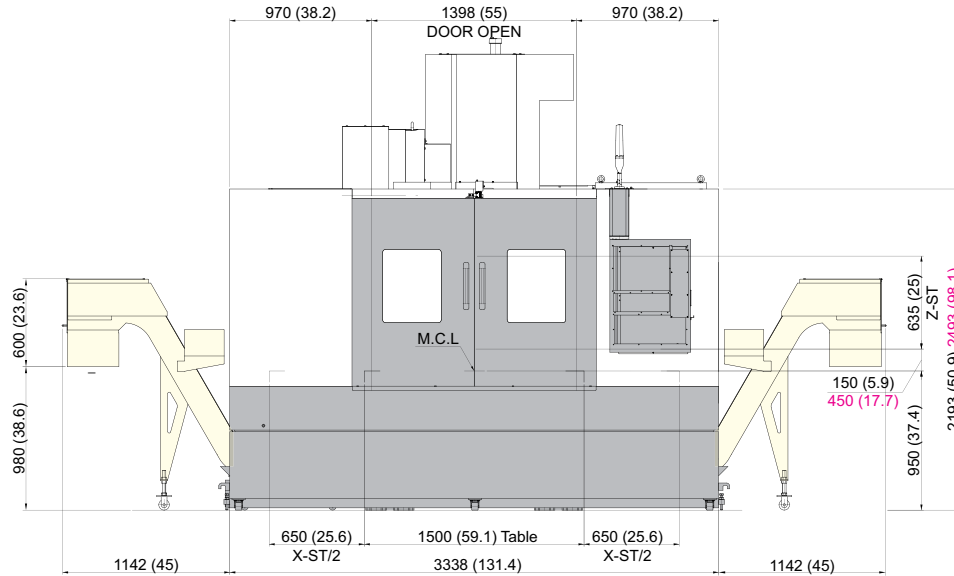
| Model | Height Item | Max. Height | Height to Magazie Cover | | | Shipping Height | Spindle Motor Height |
|---------------|-------------|----------------|-------------------------|----------------|----------------|-----------------|----------------------|
| | | | 24 tool | 30 tool | 40 tool | | |
| KF5700B II | Std. Column | 3,225 (127") | - | 2,505 (98.6") | 2,695 (106.1") | 2,665 (104.9") | 3,225 (127") |
| | High Column | 3,525 (138.8") | - | 2,805 (110.4") | 2,995 (117.9") | 2,965 (116.7") | 3,525 (138.8") |
| KF5700B/50 II | Std. Column | 3,275 (128.9") | 2,930 (115.4") | - | - | 2,715 (106.9") | 3,275 (128.9") |
| | High Column | 3,575 (140.7") | 3,230 (127.2") | - | - | 3,015 (118.7") | 3,575 (140.7") |

SPECIFICATIONS

External Dimensions

unit : mm(in)

KF6700B II (High Column : Option)



High Column : 300 mm (11.8")

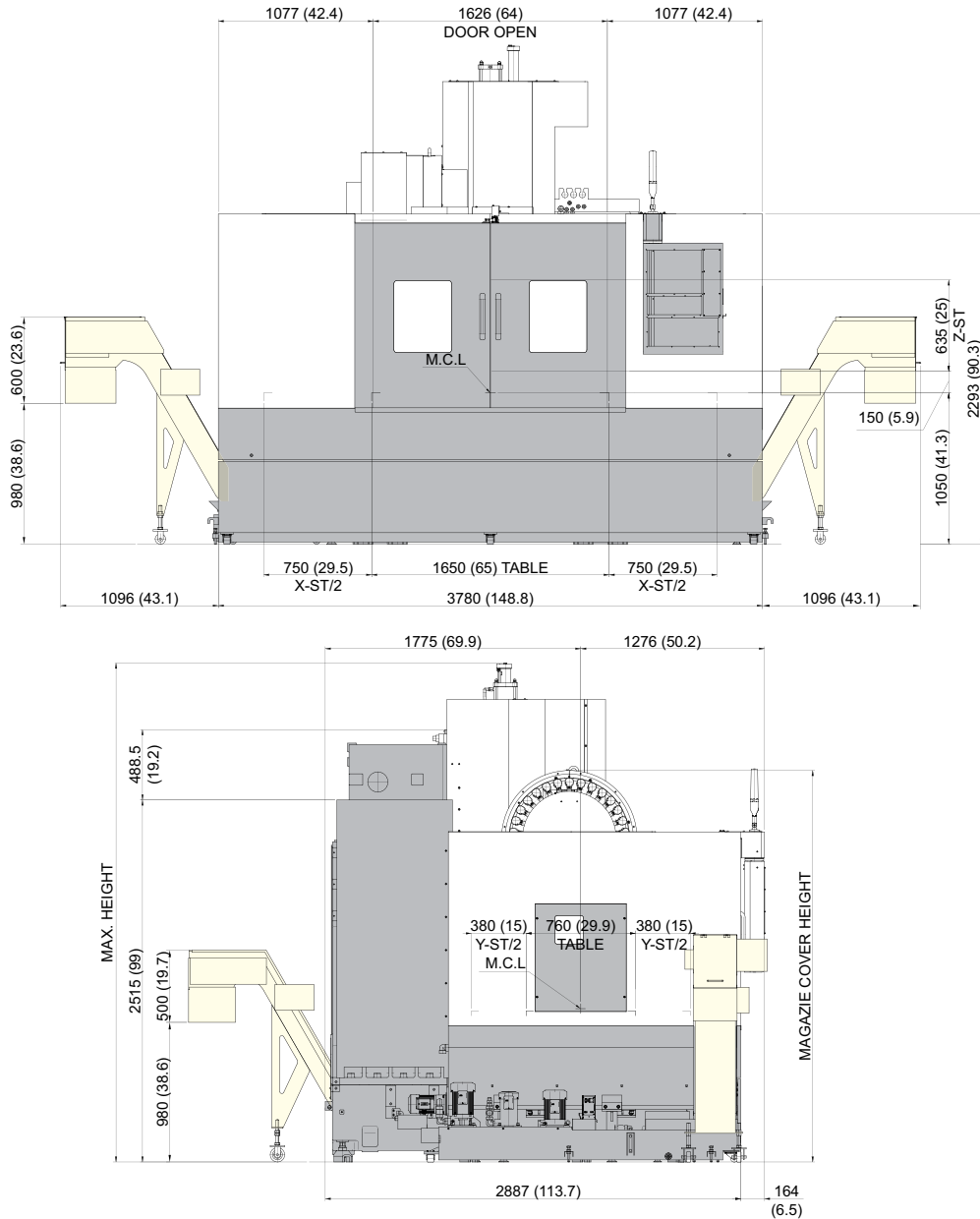
| Model | Height Item | Max. Height | Height to Magazine Cover | | | Shipping Height | Spindle Motor Height |
|---------------|-------------|----------------|--------------------------|----------------|----------------|-----------------|----------------------|
| | | | 24 tool | 30 tool | 40 tool | | |
| KF6700B II | Std. Column | 3,226 (127") | - | 2,620 (103.1") | 2,810 (110.6") | 2,780 (109.4") | 3,226 (127") |
| | High Column | 3,526 (138.8") | - | 2,920 (115") | 3,110 (122.4") | 3,080 (121.3") | 3,526 (138.8") |
| KF6700B/50 II | Std. Column | 3,276 (129") | 3,000 (118.1") | 2,720 (107.1") | - | 2,830 (111.4") | 3,276 (129") |
| | High Column | 3,576 (140.8") | 3,300 (129.9") | 3,020 (118.9") | - | 3,130 (123.2") | 3,576 (140.8") |

SPECIFICATIONS

External Dimensions

unit : mm(in)

KF7700B II



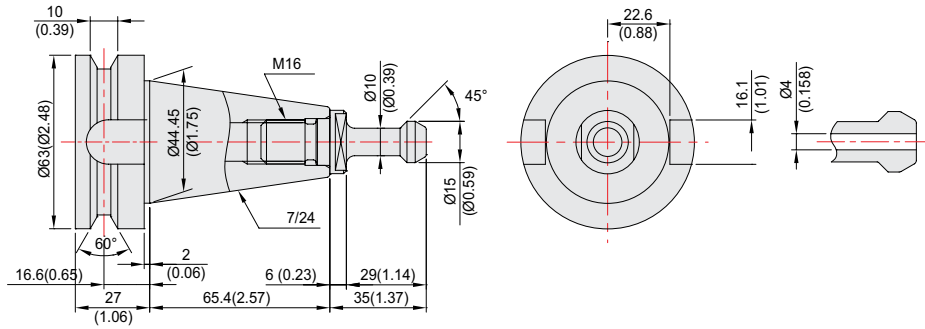
| Model | Height Item | Max. Height | Height to Magazine Cover | | | Shipping Height | Spindle Motor Height |
|---------------|-------------|----------------|--------------------------|----------------|----------------|-----------------|----------------------|
| | | | 24 tool | 30 tool | 40 tool | | |
| KF7700B II | Std. Column | 3,416 (134.5") | - | 2,720 (107.1") | 2,910 (114.6") | 3,003 (118.2") | 3,416 (134.5") |
| KF7700B/50 II | Std. Column | 3,466 (136.5") | 3,145 (123.8") | - | 2,820 (111.1") | 3,053 (120.2") | 3,466 (136.5") |

SPECIFICATIONS

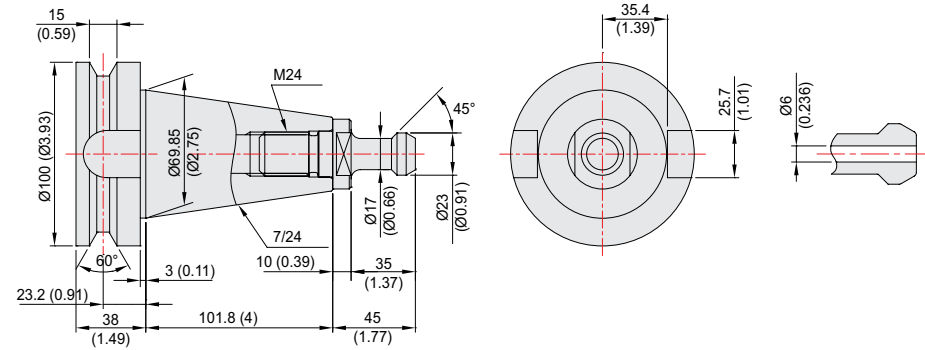
Tool Shank

unit : mm(in)

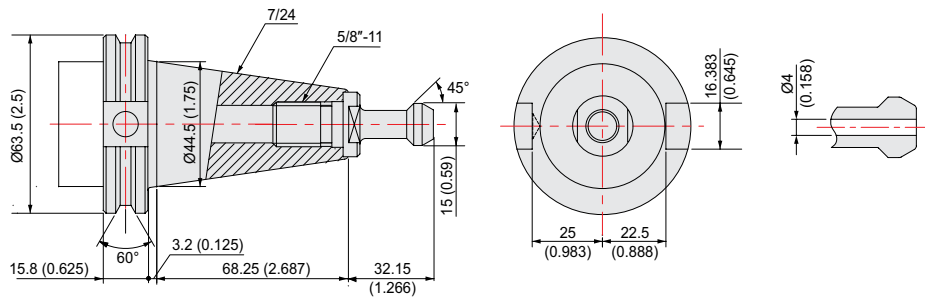
BT40



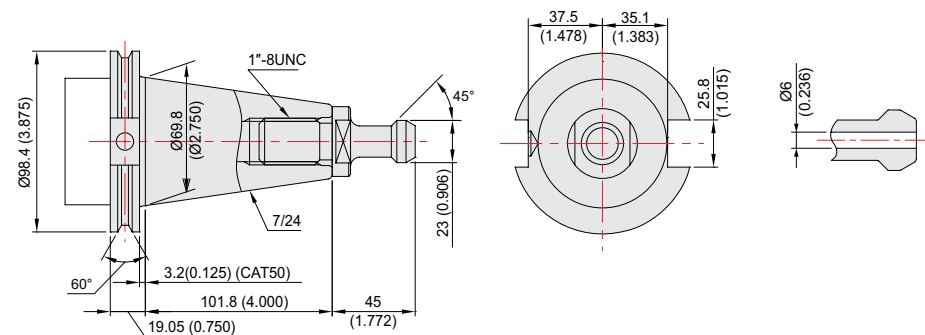
BT50



CAT40



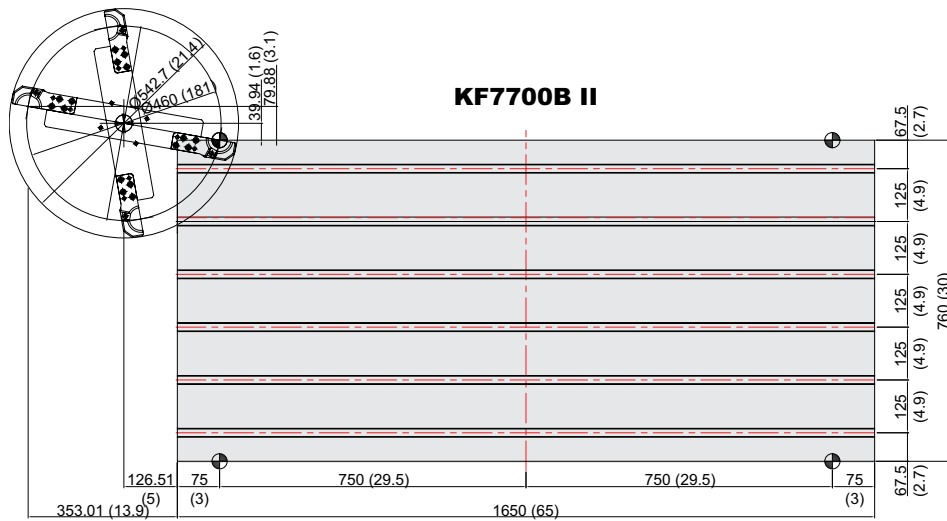
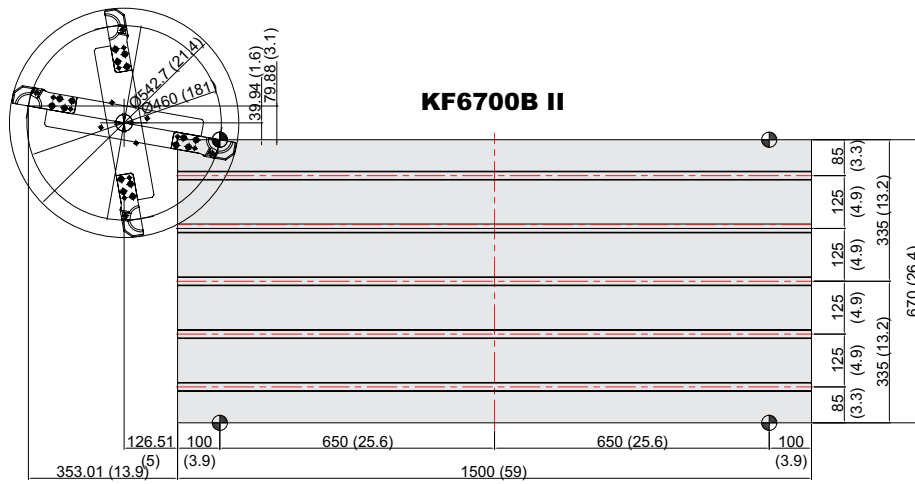
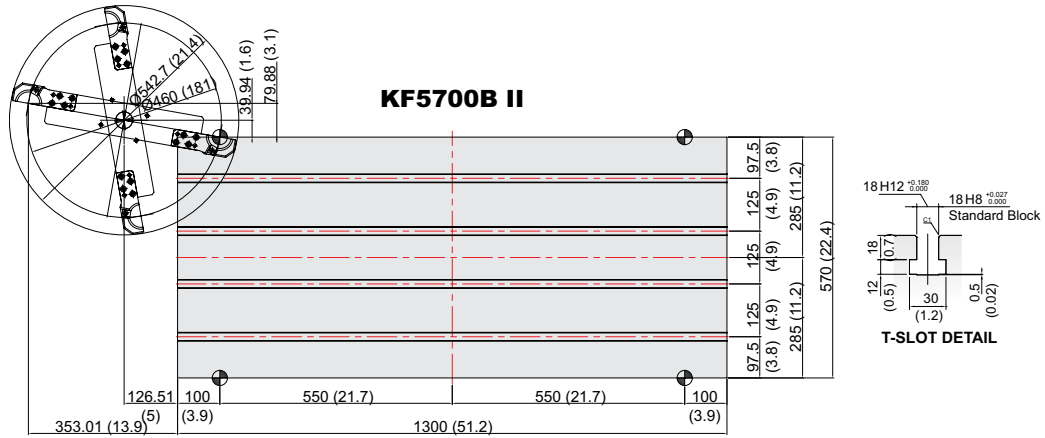
CAT50



SPECIFICATIONS

Table Dimensions

unit : mm(in)



SPECIFICATIONS

Specifications

[] : Option

| ITEM | | | KF5700B II | KF5700B/50 II |
|---------------|-------------------------------------|-----------------|---|---|
| TABLE | Table Size (L×W) | mm(in) | 1,300×570 (51.2"×22.4") | |
| | Maximum Load Capacity | kg(lb) | 1,000 (2,205) | |
| SPINDLE | Spindle Taper | - | NT40 | NT50 |
| | Spindle RPM | r/min | 8,000 [12,000] | 8,000 [6,000] |
| | Spindle Driving Method | - | DIRECT [DIRECT] | DIRECT [GEAR] |
| | Spindle Power Output (Max./Cont.) | kW(HP) | 15/11 (20/15) [18.5/11 (25/15)] | 15/11 (20/15) [18.5/15 (25/20)] |
| | Spindle Torque (Max.) | N·m(lb·ft) | 286/143 (210.9/105.5) [118/52.5 (87/38.7)] | 286/143 (210.9/105.5) [586.3/475.4 (432.2/350.6)] |
| FEED | Travel (X/Y/Z) | mm(in) | 1,100/570/520 (43.3"/22.4"/20.5") | |
| | Rapid Traverse Rate (X/Y/Z) | m/min | 30/30/24 (1,181/1,181/945) | |
| | Distance from Table Top to SP. Nose | mm(in) | 150 (5.9") ~ 670 (26.4") | 200 (7.9") ~ 720 (28.3") |
| | Distance from Column to SP. center | mm(in) | 680 | |
| | Slide Type | - | BOX GUIDE | |
| ATC | Number of Tools | ea | 30[40] | 24 |
| | Tool Shank | - | BBT40 | BBT50 |
| | Max. Tool Dia. (W.T / W.O) | mm(in) | Ø80/Ø125 (3.1"/4.9") [Ø76/Ø125 (3"/4.9")] | Ø125/Ø250 (4.9"/9.8") |
| | Max. Tool Length | mm(in) | 300 (11.8") | 350 (13.8") |
| | Max. Tool Weight | kg(lb) | 8 (17.6) | 15 (33) |
| | Tool Selection Method | - | RANDOM | |
| | Tool Change Time | C-C | sec | 3.7 |
| TANK CAPACITY | Coolant Tank | ℓ(gal) | 340 (89.8) | |
| | Lubricating Tank | ℓ(gal) | 4 (1) | |
| | Hydraulic Tank | ℓ(gal) | - (BOOSTER CYLINDER : DIRECT) / 3.9 (GEAR) | |
| POWER SUPPLY | Air Consumption (0.5MPa) | ℓ/min(gal) | 110 (29) | |
| | Electric Power Supply | kVA | 27 [24] | 27 [29] |
| | Thickness of Power Cable | mm ² | Over 25 | |
| | Voltage | V/Hz | 220/60 (200/50) | |
| MACHINE | Floor Space (L×W) | mm(in) | 2,974×2,510 (117.1"×98.8") | |
| | Height | mm(in) | 3,225 (127 ") [High Column : 3,525 (138.8 ")] | 3,275 (128.9 ") [High Column : 3,575 (140.7 ")] |
| | Weight | kg(lb) | 7,800 (17,196) | |
| PC | Controller | - | HYUNDAI WIA FANUC i Series - Smart Plus | |

SPECIFICATIONS

Specifications

[] : Option

| ITEM | | KF6700B II | KF6700B/50 II |
|---------------|-------------------------------------|---|---|
| TABLE | Table Size (L×W) | 1,500×670 (59"×26.4") | |
| | Maximum Load Capacity | 1,300 (2,866) | |
| SPINDLE | Spindle Taper | PT40 | PT50 |
| | Spindle RPM | 8,000 [12,000] | 8,000 [6,000] |
| | Spindle Driving Method | DIRECT [DIRECT] | DIRECT [GEAR] |
| | Spindle Power Output (Max./Cont.) | 15/11 (20/15) [18.5/11 (25/15)] | 15/11 (20/15) [18.5/15 (25/20)] |
| | Spindle Torque (Max.) | 286/143 (210.9/105.5) [118/52.5 (87/38.7)] | 286/143 (210.9/105.5) [586.3/475.4 (432.2/350.6)] |
| FEED | Travel (X/Y/Z) | 1,300/670/635 (51.1"/26.4"/25") | |
| | Rapid Traverse Rate (X/Y/Z) | 30/30/24 (1,181/1,181/945) | |
| | Distance from Table Top to SP. Nose | 150 (5.9") ~ 785 (30.9") | 200 (7.9") ~ 835 (32.9") |
| | Distance from Column to SP. center | 730 (28.7") | |
| | Slide Type | BOX GUIDE | |
| ATC | Number of Tools | 30 [40] | 24 [30] |
| | Tool Shank | BBT40 | BBT50 |
| | Max. Tool Dia. (W.T / W.O) | Ø80/Ø125 (3.1"/4.9") [Ø76/Ø125 (3"/4.9")] | Ø125/Ø250 (4.9"/9.8") |
| | Max. Tool Length | 300 (11.8") | 350 (13.8") |
| | Max. Tool Weight | 8 (17.6) | 15 (33) |
| | Tool Selection Method | RANDOM | |
| | Tool Change Time | C-C | 3.7 |
| TANK CAPACITY | Coolant Tank | 390 (103) | |
| | Lubricating Tank | 4 (1) | |
| | Hydraulic Tank | - (BOOSTER CYLINDER : DIRECT) / 3.9 (GEAR) | |
| POWER SUPPLY | Air Consumption (0.5MPa) | 110 (29) | |
| | Electric Power Supply | 29 [26] | 29 [32] |
| | Thickness of Power Cable | Over 25 | |
| | Voltage | 220/60 (200/50) | |
| MACHINE | Floor Space (L×W) | 3,338×2,662 (131.4"×104.8") | |
| | Height | 3,226 (127") [High Column : 3,526 (138.8")] | 3,276 (129") [High Column : 3,576 (140.8")] |
| | Weight | 9,000 (19,842) | |
| PC | Controller | HYUNDAI WIA FANUC i Series - Smart Plus | |

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

| ITEM | | | KF7700B II | KF7700B/50 II |
|---------------|-------------------------------------|-----------------|--|---|
| TABLE | Table Size (L×W) | mm(in) | 1,650×760 (65"×30") | |
| | Maximum Load Capacity | kg(lb) | 1,500 (3,307) | |
| SPINDLE | Spindle Taper | - | NT40 | NT50 |
| | Spindle RPM | r/min | 8,000 [12,000] | 8,000 [6,000] |
| | Spindle Driving Method | - | DIRECT [DIRECT] | DIRECT [GEAR] |
| | Spindle Power Output (Max./Cont.) | kW(HP) | 15/11 (20/15) [18.5/11 (25/15)] | 15/11 (20/15) [18.5/15 (25/20)] |
| | Spindle Torque (Max.) | N·m(lbf·ft) | 286/143 (210.9/105.5) [118/52.5 (87/38.7)] | 286/143 (210.9/105.5) [586.3/475.4 (432.2/350.6)] |
| FEED | Travel (X/Y/Z) | mm(in) | 1,500/760/635 (59"/30"/25") | |
| | Rapid Traverse Rate (X/Y/Z) | m/min | 30/30/24 (1,181/1,181/945) | |
| | Distance from Table Top to SP. Nose | mm(in) | 150 (5.9") ~ 785 (30.9") | 200 (7.9") ~ 835 (32.9") |
| | Distance from Column to SP. center | mm(in) | 820 (32.3") | |
| | Slide Type | - | BOX | |
| ATC | Number of Tools | ea | 30 [40] | 24 [40] |
| | Tool Shank | - | BBT40 | BBT50 |
| | Max. Tool Dia. (W.T / W.O) | mm(in) | Ø80/Ø125 (3.1"/4.9") [Ø76/Ø125 (3"/4.9")] | Ø125/Ø250 (4.9"/9.8") |
| | Max. Tool Length | mm(in) | 300 (11.8") | 350 (13.8") |
| | Max. Tool Weight | kg(lb) | 8 (17.6) | 15 (33) |
| | Tool Selection Method | - | RANDOM | |
| | Tool Change Time | C-C | sec | 3.7 |
| TANK CAPACITY | Coolant Tank | ℓ(gal) | 400 (105.7) | |
| | Lubricating Tank | ℓ(gal) | 4 (1) | |
| | Hydraulic Tank | ℓ(gal) | - (BOOSTER CYLINDER : DIRECT) / 3.9 (GEAR) | |
| POWER SUPPLY | Air Consumption (0.5MPa) | ℓ/min(gal) | 110 (29) | |
| | Electric Power Supply | kVA | 29 [26] | 29 [32] |
| | Thickness of Power Cable | mm ² | Over 25 | |
| | Voltage | V/Hz | 220/60 (200/50) | |
| MACHINE | Floor Space (L×W) | mm(in) | 3,780×2,887 (148.8"×113.7") | |
| | Height | mm(in) | 3,416 (134.5") | 3,466 (136.5") |
| | Weight | kg(lb) | 12,200 (26,896) | |
| PC | Controller | - | HYUNDAI WIA FANUC i Series - Smart Plus | |

CONTROLLER

HYUNDAI WIA FANUC i Series – SMART PLUS

[] : Option ☆ Needed technical consultation

| Controlled axis / Display / Accuracy Compensation | |
|---|---|
| Control axes | 3 axes (X, Y, Z) [4 axes (X, Y, Z, A)] [5 axes (X, Y, Z, A, C)] |
| Simultaneously controlled axes | 3 axes [Max. 4 axes] |
| Least setting Unit | X, Y, Z axes : 0.001 mm (0.0001 inch) B axes : 1 deg [0.001] deg |
| Least input increment | X, Y, Z axes : 0.001 mm (0.0001 inch) B axes : 1 deg [0.001] deg |
| Inch / Metric conversion | |
| High response vector control | |
| Interlock | All axes / Each axis |
| Machine lock | All axes |
| Backlash compensation | ± 0 ~ 9999 pulses (Rapid traverse / Cutting feed) |
| Position switch | |
| LCD / MDI | 15 inch LCD unit (with Touch Panel) |
| Feedback | Absolute motor feedback |
| Stored stroke check 1 | Over travel |
| Stored stroke check 2, 3 | |
| Stored pitch error compensation | |
| Operation | |
| Automatic operation (Memory) | |
| MDI operation | |
| DNC operation | Needed DNC software / CF card |
| Program restart | |
| Wrong operation prevention | |
| Program check function | Dry run, Program check, Z axis Machine lock Stored limit check before move |
| Single block | |
| Search function | Program Number / Sequence Number |
| Handle interruption | |
| Interpolation functions | |
| Nano interpolation | |
| Positioning | G00 |
| Linear interpolation | G01 |
| Circular interpolation | G02, G03 |
| Exact stop mode | Single : G09, Continuous : G61 |
| Dwell | G04, 0 ~ 9999.9999 sec |
| Skip | G31 |
| Reference position return | 1st reference, G28 / 2nd reference, G30 Ref. position check, G27 |
| Single direction positioning | G60 |
| Thread synchronous cutting | G33 |
| Helical interpolation | Circular + Linear 2 axes (Max.) |
| Feed function / Acc. & Dec. control | |
| Manual feed | Rapid traverse Jog : 0~2,000mm/min (79 ipm) Manual handle : x1, x10, x100 pulses Reference position return |
| Cutting Feed command | Direct input F code |
| Feedrate override | 0 ~ 200% (10% Unit) |
| Rapid traverse override | 1%, 25%, 50%, 100% |
| Override cancel | |
| Feed per minute | G94 |
| Feed per revolution | G95 |
| Cylindrical interpolation | G07.1 |
| Inverse time feed | G93 |
| Look-ahead block | 200 blocks (AI APC) |
| Program input | |
| Tape Code | EIA / ISO |
| Optional block skip | 9 ea |
| Absolute / Incremental program | G90 / G91 |
| Program stop / end | M00, M01 / M02, M30 |
| Maximum command unit | ± 999,999.999 mm (± 99,999.9999 inch) |
| Plane selection | X-Y, G17 / Z-X, G18 / Y-Z, G19 |
| Workpiece coordinate system | G52, G53, 48 pairs (G54.1 P1 ~ 48) |
| Manual absolute | Fixed ON |
| Programmable data input | G10 |
| Sub program call | 10 folds nested |
| Custom macro | #100 ~ #199, #500 ~ #999 |
| Programmable mirror image | G51.1, G50.1 |
| G code preventing buffering | G4.1 |
| Optional chamfering corner R | |

| Program input | |
|---|--|
| Polar coordinate command | G15, G16 |
| Canned cycle | G73, G74, G76, G80 ~ G89 |
| Scaling | G50, G51 |
| Coordinate system rotation | G68, G69 |
| Conversational Program | Smart Guide-i |
| Auxiliary function / Spindle speed function | |
| Level-up M Code | Multi / Bypass M code |
| Spindle speed function | S & S digit, Binary output |
| Spindle override | 0% ~ 150% (10% Unit) |
| Spindle orientation | M19 |
| Retraction for rigid tapping | |
| FSSB high speed rigid tapping | |
| Tool function / Tool compensation | |
| Tool function | Max. T8 digit |
| Tool life management | |
| Tool offset pairs | 400 pairs |
| Tool nose / radius compensation | G40, G41, G42 |
| Tool length offset | G43, G44, G49 |
| Tool offset memory C | Tool geometry and wear (Cutter and tool length) |
| Tool length measurement | Z axis Input C |
| Editing function | |
| Part program storage size | 5,120m (2MB) |
| No. of registerable programs | 1,000 ea |
| Program protect | |
| Background editing | |
| Extended part program editing | Copy, move and change of NC program |
| Memory card program edit | |
| Data input / output & Interface | |
| I/O interface | CF card, USB memory Embedded Ethernet interface |
| Screen hard copy | |
| External message | |
| External key input | |
| External workpiece number search | |
| Automatic data backup | |
| Setting, display and diagnosis | |
| Self-diagnosis function | |
| History display & Operation | Alarm & Operator message & Operation |
| Run hour / Parts count display | |
| Maintenance information | |
| Actual cutting feedrate display | |
| Display of spindle speed / T code | |
| Graphic display | |
| Operating monitor screen | Spindle / Servo load etc. |
| Power consumption monitoring | Spindle & Servo |
| Spindle / Servo setting screen | |
| Multi language display | Support 24 languages |
| Display language switching | Selection of 5 optional Languages |
| LCD Screen Saver | Screen saver |

| Option | |
|--------------------------------|---|
| Fast ethernet | Needed option board |
| Data server | Needed option board |
| Protection of data at 8 levels | |
| Additional Axis | |
| Manual handle feed | 2/3 units #100 ~ #199, #500 ~ #999, #98000 ~ #98499 |
| Add. Workpiece | Max. 300 pairs (G54.1 P1 ~ P300) |
| AICC II | 400 blocks ☆ |

Figures in inch are converted from metric values.

The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

MOVEMENT FOR BETTER TOMORROW



ECO FRIENDLY

Protect the environment for all humanity and generation to come

01

**Achieve
carbon
neutrality**

- Develop Net-zero Roadmap
- Heighten carbon emissions management
- Achieve carbon neutrality goals

02

**Boost
resource
circulation**

- Detail plans to reduce environmental impact
- Gradually reduce pollutant emissions
- Build eco-friendly supply chain

03

**Establish
environmental
management
framework**

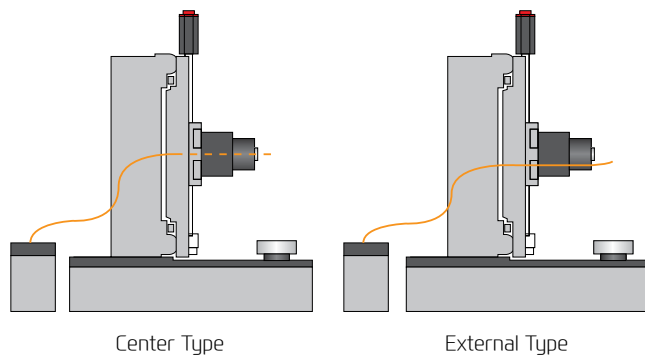
- Set up environmental management process
- Assess business impact of climate change risks

HYUNDAI WIA ECO SYSTEM

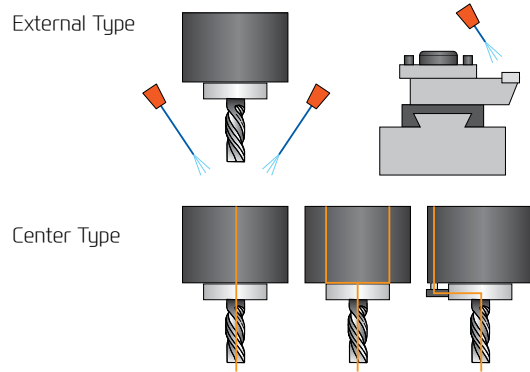
MQL (Minimal Quantity Lubrication)

The goal of this system is to spray only the amount of lubricant required to prevent heat and chip build up at the cutting tool or work piece face.

Example of Machining Center Application



Example of Etc.



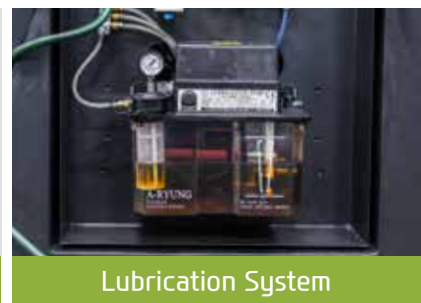
Oil Skimmer

An oil skimmer can increase coolant and tool life by removing tramp oil contaminants.



Mist Collector

Mist Collector reduces the amount of smoke and oil mist in the air. This helps build a safe and comfortable working environment and improve durability.



Lubrication System

By applying lubricant only when the machines axis are moving lubrication consumption is reduced by compared to standard systems.

HYUNDAI WIA ENERGY SAVING

HW-ESS (HYUNDAI WIA Energy Saving System)

HYUNDAI WIA Machine tool provides the optimum power saving function that can easily save energy with an intuitive user interface.



1. **Machine-ready power saving function** : Put all servo motors and other motors into sleep mode when no control or operation is done for a set time
2. **Work light auto-off function** : The work light is turned off automatically when no control or operation is done for a set time
3. **Chip conveyor auto power saving** : Operation/non operation time (timer) can be set to save energy
4. **Auto Power-off** : Auto power off after ending the an operation after a period of time
5. **Eco function** : Machine ready sleep mode can be activated/de-activated from the controller panel
6. **Power consumption monitor** : Real time power consumption can be monitored through the OP screen



You Tube HYUNDAI WIA MT
www.youtube.com/HYUNDAIWIAMT

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HEADQUARTER

Changwon Technical Center/R&D Center/Factory 153, Jeongdong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea TEL : +82 55 280 9114 FAX : +82 55 282 9114

Overseas Sales Team /R&D Center 37, Cheoldobangmulgwan-ro, Uiwang-si, Gyeonggi-do, Korea TEL : +82 31 8090 2539

OVERSEAS OFFICES

HYUNDAI WIA Machine America corp. 450 Commerce Blvd, Carlstadt, NJ 07072, USA TEL : +1-201-987-7298

HYUNDAI WIA Europe GmbH Alexander-Fleming-Ring 57, 65428 Rüsselsheim Germany TEL : +49-0-6142-9256-0

HYUNDAI WIA Machine Tools China 2-3F, Bldg6, No.1535 Hongmei Road, Xuhui District, Shanghai, China TEL : +86-21-6427-9885

India Branch Office #4/169, 1st Floor, LOTTE BLDG, Rajiv Gandhi Salai, (OMR), Kandanchavadi, Chennai - 600096, Tamilnadu, India TEL : +91-76-0490-3348

Vietnam Branch Office Flat number 05, Service and Trade Center of Viet Huong Industrial Zone, Highway 13, Thuan Giao, Thuan An, Binh Duong, Vietnam TEL : +84-3-5399-5099

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